

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A sintered body of gastight polycrystalline aluminum oxide containing magnesium in oxidic form and a second metal M in oxidic form, characterized in that wherein the second metal M is selected from erbium, holmium, dysprosium holmium and thulium, and the aluminum oxide further comprises zirconium in oxidic form, the magnesium being calculated as MgO and being present in a quantity by weight of 50 to 1000 ppm, the second metal being calculated as M<sub>2</sub>O<sub>3</sub> and being present in a quantity by weight of 10 to 100 ppm, and zirconium being calculated as ZrO<sub>2</sub>, and being present in a quantity by weight of 50 to 600 ppm.

2. (Currently Amended) A The sintered body as claimed in claim 1, characterized in that magnesium calculated as wherein the MgO is

present in a quantity by weight of 50 to 500 ppm, the ~~second metal~~ calculated as  $M_2O_3$  is present in a quantity by weight of 20 to 50 ppm, and ~~zirconium calculated as the~~  $ZrO_2$  is present in a quantity by weight of 200 to 500 ppm.

3. (Currently Amended) A sintered body ~~as claimed in claim 2,~~ characterized in that ~~magnesium calculated as~~  $MgO$  is present in a quantity by weight of 50 to 500 ppm, the ~~second metal calculated as~~  $M_2O_3$  is present in a quantity by weight of 30 to 50 ppm and ~~zirconium calculated as~~  $ZrO_2$  is present in a quantity by weight of 200 to 400 ppm of gastight polycrystalline aluminum oxide containing magnesium in oxidic form and a second metal M in oxidic form, wherein the second metal M is selected from erbium, holmium and thulium, and the aluminum oxide further comprises zirconium in oxidic form, the magnesium being calculated as  $MgO$  and being present in a quantity by weight of 50 to 500 ppm, the second metal being calculated as  $M_2O_3$  and being present in a quantity by weight of 30 to 50 ppm, and zirconium being calculated as  $ZrO_2$  and being present in a quantity by weight of 200 to 400 ppm.

4. (Currently Amended) An electric lamp comprising a lamp vessel of gastight polycrystalline aluminum oxide containing magnesium in oxidic form and a second metal M in oxidic form, characterized in that the lamp vessel comprises a sintered body as claimed in claim 1 wherein the second metal M is selected from erbium, holmium and thulium, and the aluminum oxide further comprises zirconium in oxidic form, the magnesium being calculated as MgO and being present in a quantity by weight of 50 to 1000 ppm, the second metal being calculated as  $M_2O_3$  and being present in a quantity by weight of 10 to 100 ppm, and zirconium being calculated as  $ZrO_2$  and being present in a quantity by weight of 50 to 600 ppm.

5. (Currently Amended) An The electric lamp as claimed in claim 4, characterized in that the lamp vessel comprises a sintered body as claimed in claim 2 wherein the MgO is present in a quantity by weight of 50 to 500 ppm, the  $M_2O_3$  is present in a quantity by weight of 20 to 50 ppm, and the  $ZrO_2$  is present in a quantity by weight of 200 to 500 ppm.

6. (Currently Amended) An The electric lamp as claimed in

~~claim 5, characterized in that the lamp vessel comprises a sintered body as claimed in claim 3~~ claim 4, wherein the MgO is present in a quantity by weight of 50 to 500 ppm, the  $M_2O_3$  is present in a quantity by weight of 30 to 50 ppm and the  $ZrO_2$  is present in a quantity by weight of 200 to 400 ppm.